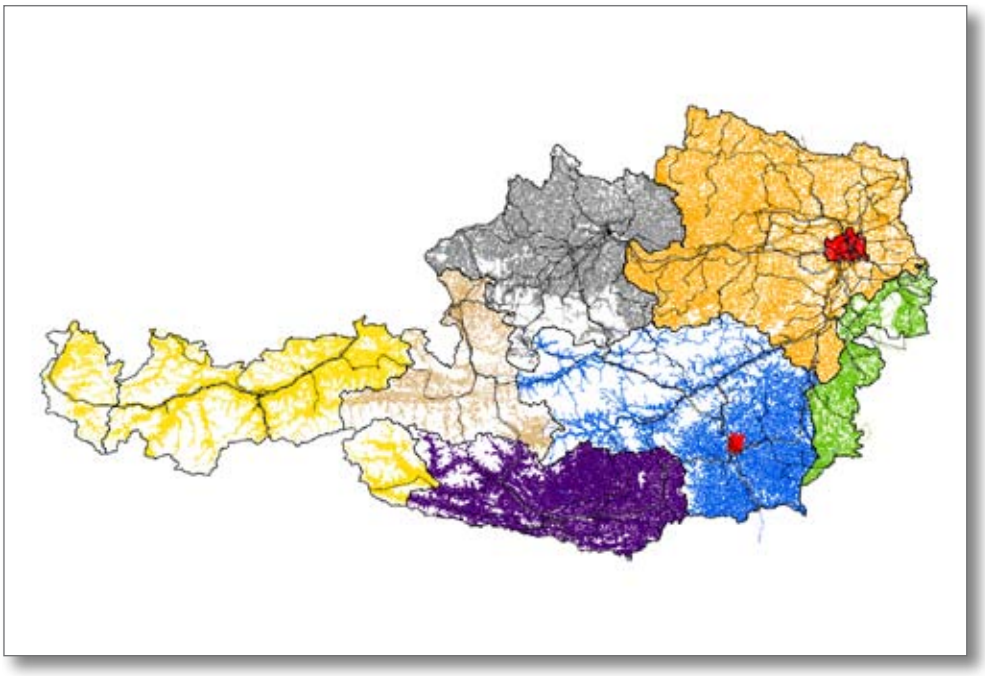
GIP.at

GIP.at - the basis for a modern administration of Austria's transport routes

www.GIP.gv.at



Graph Integration Platform (GIP)

The co-operative traffic graph for all of Austria

GIP.at – the step from the analogue to the digital world

Traffic control is based on administrative procedures and requires the cooperation of infrastructure maintainers, authorities from the different administrative levels and transport companies. It needs modern technologies to calculate impact, ensure communication between the different administrations, traceability and documentation.

The Graph Integration Platform (GIP), which has now been implemented across Austria as part of the GIP.at project, serves as the basis for this.

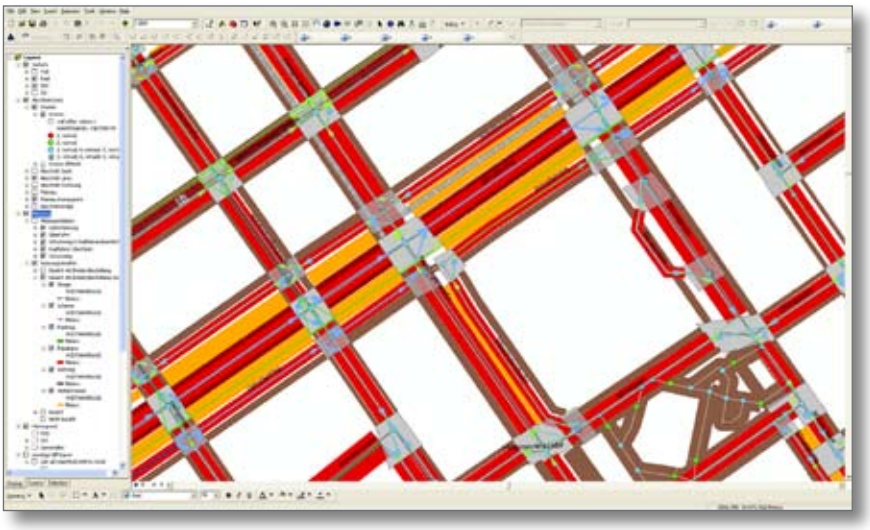
Data exchange between the local and regional authorities is governed by a contract on data use that keeps data sovereignties as they are. The GIP is continuously updated via a network client.

Over recent years, Austria's public authorities have consistently digitised all their administrative processes relating to transport infrastructure. In so doing, the various bodies selected their preferred points in time and systems for data storage, giving rise to parallel systems that resist any integration.

The GIP is the link that has been missing between these parallel systems: the common "official" reference graph to which all the different systems of the administrative units can now relate and link up to. The GIP covers all modes of transport (passenger car traffic, public transport, cycling, walking) and, moreover, is capable of proposing intermodal combinations. The platform is continuously updated by eGovernment processes.

GIP

The GIP covers all modes of transport and is able to combined these (intermodal combinations)



Benefits for administration, road users and emergency services

The GIP offers the public administration and authorities an overview of the entire transport infrastructure by furnishing all the essential information in a nutshell. Parallel, and thus multiple, data storage systems are therefore no longer required. The system makes it easier to verify whether an official order or action complies with the Austrian Road Traffic Regulations or is in violation of any other official orders.

Moreover, the impact of traffic signs on the flow of traffic can be determined. The GIP is also necessary to implement the Intelligent Transport Systems Act (IVS), the INSPIRE Directive and the PSI Directive with the local and regional authorities.

The administration is able to offer the population affected by the various activities more service by warranting quick access to the required information. The GIP provides an overall view of the various situations, allowing a quicker response to any incoming inquiries.

For the mandatory reports required to ensure transport-related environmental monitoring, the GIP likewise serves as a basic tool, providing a cooperative traffic information service nationwide.

By pointing up alternatives, a switch to an environmentally friendly mode of transport (public transport, bicycle, walking) becomes attractive and greater awareness is ensured.

The police can use the GIP to localise accidents more precisely with less effort. Accident management and the analysis of accident concentration points become much easier thanks to this system.

The GIP furthermore serves as basis for route approvals in the event of special transports (SOTRAs) and dangerous goods transports.

GIP - network client

The GIP is continuously updated via a network client

GIP.at at a glance

GIP.at: With GIP.at, the Graph Integration Platform (GIP) has now been implemented across Austria. The purpose of the GIP.at project allow digital management of the traffic data in compliance with standardised rules. To this end, it is necessary for the various reference systems used to store data (=graphs) to be aware of one another. This new system is the Graph Integration Platform (GIP). It will be made available free of charge to all municipalities, cities and other local and regional authorities.

Partners: GIP.at is a joint project of the Austrian federal states, ASFINAG, ÖBB Infrastruktur, the Austrian Federal Ministry of Transport, Innovation and Technology and their partner ITS Vienna Region. The Austrian Association of Cities and Towns is an associated partner.

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